CERTIFICATE OF AILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Parents, D.O. Box 1450, Alexandria, VA 22313-1450, on October 22, 2003 Auy. Docket No.: SANDP039 **PATENT** 

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Kimberly Melvin

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

CHANG, Robert C. et al.

Application No.: 10/679,000

Filed: October 2, 2003

For: METHOD AND APPARATUS FOR MANAGING THE INTEGRITY OF DATA IN A NON-VOLATILE MEMORY

**SYSTEM** 

Examiner: Unassigned

Group: Unassigned

Date: October 22, 2003

## INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§1.56 AND 1.97(c)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached PTO Form 1449, copies of which are attached, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is being filed within three (3) months of the filing date of the above-referenced application. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 50-1652 (Order No. SANDP039).

Respectfully submitted,

Peggy A. Su Reg. No. 41,336

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## Form 1449 (Modified)

Atty Docket No. Application No.:

SANDP039 10/679,000

**Information Disclosure Statement By Applicant** 

Use Several Sheets if Necessary)

Inventor

Robert C. Chang et al.

Group Filing Date

Unassigned

Mailing Date

October 2, 2003 October 22, 2003

U.S. Patent or Published Documents

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					Sub-	Filing	
No.	Patent No.	Date	Patentee	Class	Class	Date	
A	5,222,109	6/22/93	Pricer	377	24.1	12/28/90	
В	5,297,148	3/22/94	Harari et al.	371	10.2	10/20/92	
C	5,388,083	2/7/95	Assar et al.	365	218	3/26/93	
D	5,438,573	8/1/95	Mangan et al.	371	10.3	6/1/94	
E	5,568,439	10/22/96	Harari	365	218	6/6/95	
F	5,598,370	1/28/97	Niijima et al.	365	185.33	4/26/95	
G	5,835,935	11/10/98	Estakhri et al.	711	103	9/13/95	
Н	5,845,313	12/1/98	Estakhri et al.	711	103	7/31/95	
I	5,860,082	1/12/99	Smith et al.	711	103	3/28/96	
J	5,907,856	5/25/99	Estakhri et al.	711	103	3/31/97	
K	5,924,113	7/13/99	Estakhri et al.	711	103	5/29/98	
L	6,016,275	1/18/00	Han	365	185.29	11/4/98	
M	6,081,447	6/27/00	Lofgren, et al.	365	185.02	3/5/99	
N	6,115,785	9/5/00	Estakhri et al.	711	103	5/13/99	
О	6,125,435	9/26/00	Estakhri et al.	711	201	11/24/97	
P	6,230,233	5/8/01	Lofgren, et al.	711	103	9/13/91	
Q	6,260,156	7/10/01	Garvin et al.	714	8	12/4/98	
R	6,426,893	7/30/02	Conley et al.	365	185.11	2/17/00	
	A B C D E F G H I J K L M N O P Q	No. Patent No.  A 5,222,109  B 5,297,148  C 5,388,083  D 5,438,573  E 5,568,439  F 5,598,370  G 5,835,935  H 5,845,313  I 5,860,082  J 5,907,856  K 5,924,113  L 6,016,275  M 6,081,447  N 6,115,785  O 6,125,435  P 6,230,233  Q 6,260,156	No. Patent No. Date  A 5,222,109 6/22/93  B 5,297,148 3/22/94  C 5,388,083 2/7/95  D 5,438,573 8/1/95  E 5,568,439 10/22/96  F 5,598,370 1/28/97  G 5,835,935 11/10/98  H 5,845,313 12/1/98  I 5,860,082 1/12/99  J 5,907,856 5/25/99  K 5,924,113 7/13/99  L 6,016,275 1/18/00  M 6,081,447 6/27/00  N 6,115,785 9/5/00  O 6,125,435 9/26/00  P 6,230,233 5/8/01  Q 6,260,156 7/10/01	A         5,222,109         6/22/93         Pricer           B         5,297,148         3/22/94         Harari et al.           C         5,388,083         2/7/95         Assar et al.           D         5,438,573         8/1/95         Mangan et al.           E         5,568,439         10/22/96         Harari           F         5,598,370         1/28/97         Niijima et al.           G         5,835,935         11/10/98         Estakhri et al.           H         5,845,313         12/1/98         Estakhri et al.           J         5,860,082         1/12/99         Smith et al.           J         5,907,856         5/25/99         Estakhri et al.           K         5,924,113         7/13/99         Estakhri et al.           L         6,016,275         1/18/00         Han           M         6,081,447         6/27/00         Lofgren, et al.           N         6,115,785         9/5/00         Estakhri et al.           P         6,230,233         5/8/01         Lofgren, et al.           Q         6,260,156         7/10/01         Garvin et al.	No.         Patent No.         Date         Patentee         Class           A         5,222,109         6/22/93         Pricer         377           B         5,297,148         3/22/94         Harari et al.         371           C         5,388,083         2/7/95         Assar et al.         365           D         5,438,573         8/1/95         Mangan et al.         371           E         5,568,439         10/22/96         Harari         365           F         5,598,370         1/28/97         Niijima et al.         365           G         5,835,935         11/10/98         Estakhri et al.         711           H         5,845,313         12/1/98         Estakhri et al.         711           J         5,860,082         1/12/99         Smith et al.         711           J         5,907,856         5/25/99         Estakhri et al.         711           K         5,924,113         7/13/99         Estakhri et al.         711           K         5,924,113         7/13/90         Han         365           M         6,081,447         6/27/00         Lofgren, et al.         711           O         6,115,785         9/5/00<	No.         Patent No.         Date         Patentee         Class Class           A         5,222,109         6/22/93         Pricer         377         24.1           B         5,297,148         3/22/94         Harari et al.         371         10.2           C         5,388,083         2/7/95         Assar et al.         365         218           D         5,438,573         8/1/95         Mangan et al.         371         10.3           E         5,568,439         10/22/96         Harari         365         218           F         5,598,370         1/28/97         Niijima et al.         365         185.33           G         5,835,935         11/10/98         Estakhri et al.         711         103           H         5,845,313         12/1/98         Estakhri et al.         711         103           J         5,907,856         5/25/99         Estakhri et al.         711         103           K         5,924,113         7/13/99         Estakhri et al.         711         103           L         6,016,275         1/18/00         Han         365         185.29           M         6,081,447         6/27/00         Lofgren, et al.	

Foreign Patent or Published Foreign Patent Application

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Examiner		Document	Publication	Country or		Sub-	Trans	slation
Initial	No.	No.	Date	Patent Office	Class	class	Yes	No
	S	62-283496	12/9/87	JP			X	
	T	62-283497	12/9/87	JP			X	

## **Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication				
	U	Kim, Jesung et al., "A Space-Efficient Flash Translation Layer for Compactflash Systems", IEEE Transactions on Consumer Electronics, Vol. 48, No. 2, May 2002				
Examiner	<u>.                                    </u>	Date Considered				

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.